VOLUME CONTENTS

Number 1

D. Clarke	1	Calculation of the added mass of elliptical cylinders with vertical fins in shallow water
J. M. Zhan, Y. S. Li and O. W. H. Wai	23	Numerical modeling of multi-directional irregular waves incorporating 2-D numerical wave absorber and subgrid turbulence
F. Winsor	47	Evaluation of methods to remove inertial force from measured model wave impact force signals
H. S. Lee, A. Neil Williams, B. H. Lee and J. Oh	85	Diffraction of multidirectional random waves by multiple rectangular submarine pits
A. Jönsson, B. Broman and L. Rahm	107	Variations in the Baltic Sea wave fields
		Technical Note
Y. Zimmels and A. Boas	127	Construction of a pile-based offshore airport
	151	Book Review

Number 2

Y. M. Shen, C.-O. Ng and A. T. Chwang	153	A two-fluid model of turbulent two-phase flow for simulating turbulent stratified flows
A. C. Takinaci, M. Atlar and E. Korkut	163	A practical surface panel method to predict velocity distribution around a three-dimensional hydrofoil including boundary layer effects
S. H. Kwon, W. M. Moon and H. S. Lee	185	Experimental and numerical studies on the development of a new wave absorber
N. Mori	205	Effects of wave breaking on wave statistics for deep-water random wave train
N. J. Shankar and M. P. R. Jayaratne	221	Wave run-up and overtopping on smooth and rough slopes of coastal structures

F. Hatipoglu and I. Avci	239	Flow around a partly buried cylinder in a steady current
I. Tsukrov, O. Eroshkin, D. Fredriksson, M. R. Swift and B. Celikkol	251	Finite element modeling of net panels using a consistent net element
A. Vijaya kumar, S. Neelamani and S. Narasimha Rao	271	Wave pressures and uplift forces on and scour around submarine pipeline in clayey soil

Number 3

K. Günaydın and M. S. Kabdaşlı	297	The formation of offshore ripples in the zone under irregular waves
Y. M. C. Delauré and A. Lewis	309	3D hydrodynamic modelling of fixed oscillating water column wave power plant by a boundary element methods
M. Taylan	331	Static and dynamic aspects of a capsize phenomenon
S.-W. Twu and C.-C. Liou	351	Damping long waves by a multi-channel structure
J. A. Eicher, H. Guan and D. S. Jeng	369	Stress and deformation of offshore piles under structural and wave loading
G. X. Wu and R. E. Taylor	387	The coupled finite element and boundary element analysis of nonlinear interactions between waves and bodies
J.-B. Song, K.-J. Wu and Y.-H. Wu	401	Outer wave number spectrum and statistical distribution of apparent wave number vector
P. C. Y. Wong and A. W.-K. Law	413	Wave-induced drift of an elliptical surface film

Number 4

R. Silva, P. Salles and G. Govaere	437	Extended solution for waves travelling over a rapidly changing porous bottom
B. Buckham, M. Mahon, M. Seto, X. Zhao and C. Lambert	453	Dynamics and control of a towed underwater vehicle system, part I: model development
C. Lambert, M. Nahon, B. Buckham and M. Seto	471	Dynamics and control of towed underwater vehicle system, part II: model validation and turn maneuver optimization
A. K. Agarwal and A. K. Jain	487	Dynamic behavior of offshore spar platforms under regular sea waves
A. K. Agarwal and A. K. Jain	517	Nonlinear coupled dynamic response of offshore Spar platforms under regular sea waves
A. C. Phadke, C. D. Martino, K. F. Cheung and S. H. Houston	553	Modeling of tropical cyclone winds and waves for emergency management

Number 5

R. Piscopia, V. Polnikov, P. DeGirolamo and S. Magnaldi	579	Validation of the three-wave quasi-kinetic approximation for the spectral evolution in shallow water
O. Yilmaz, A. Incecik and J. C. Han	601	Simulation of green water flow on deck using non-linear dam breaking theory
O. B. Augusto and B. L. Andrade	611	Anchor deployment for deep water floating offshore equipments
D. J. Wood, G. K. Pedersen and A. Jensen	625	Modelling of run up of steep non-breaking waves
D. Perrault, N. Bose, S. O'Young and C. D. Williams	645	Sensitivity of AUV added mass coefficients to variations in hull and control plane geometry
S. Cai, X. Long and Z. Gan	673	A method to estimate the forces exerted by internal solitons on cylindrical piles

		Technical Note
C. T. F. Ross, B. H. Huat, T. B. Chei, C. M. Chong and M. D. A. Mackney	691	The buckling of GRP hemi-ellipsoidal dome shells under external hydrostatic pressure
	707	Books Received

Number 6

S. K. Bhattacharyya, S. Sreekumar and V. G. Idichandy	709	Coupled dynamics of SeaStar mini tension leg platform
B. H. Choi, H. M. Eum and S. B. Woo	739	Modeling of coupled tide–wave–surge process in the Yellow Sea
K. Günayın and M. S. Kabdaşlı	761	Static stability of submerged partial revetment structures under regular and irregular waves
D. Perrault, N. Bose, S. O'Young and C. D. Williams	779	Sensitivity of AUV response to variations in hydrodynamic parameters
		Technical Note
D. G. Stamos, M. R. Hajj and D. P. Telionis	813	Performance of hemi-cylindrical and rectangular submerged breakwaters
C. A. Rossit, P. A. A. Laura and D. V. Bambill	829	Letter to Editor
W. E. Rogers, J. M. Kaihatu, H. A. H. Petit, N. Booij and L. H. Holthuijsen	831	Erratum for: Diffusion reduction in an arbitrary scale third generation wind wave model

Number 7

G. M. Beltrami, A. Bargagli and R. Briganti	833	Gravitational mode calculation of basins discretized by orthogonal curvilinear grids
P. Lin and C. W. Li	855	Wave–current interaction with a vertical square cylinder

S. Chen and G. Fu	877	A fuzzy approach to the lectotype optimization of offshore platforms
M. Rambabu, S. N. Rao and V. Sundar	893	Current-induced scour around a vertical pile in cohesive soil
M. A. Santos Neves, N. Pérez and O. Lorca	921	Analysis of roll motion and stability of a fishing vessel in head seas
A. Veltcheva, P. Cavaco and C. Guedes Soares	937	Comparison of methods for calculation of the wave envelope
P. A. A. Laura, C. A. Rossit and D. V. Bambill	949	Letter to Editor
T. L. Lee, C. P. Tsai and D. S. Jeng	951	Corrigendum
M. E. McCormick	953	Book Review

Number 8

D. H. Felix, D. V. Bambill, C. A. Rossit, R. E. Rossi and P. A. A. Laura	955	Natural frequencies of a vibrating repaired panel in an ocean structure
X. Chen, Y. Wu, W. Cui and X. Tang	965	Nonlinear hydroelastic analysis of a moored floating body
A. B. Mahfouz and M. R. Haddara	1005	Effect of the damping and excitation on the identification of the hydrodynamic parameters for an underwater robotic vehicle
U. B. Machado	1027	Probability density functions for non-linear random waves and responses
K. McTaggart, D. Cumming, C. C. Hsiung and L. Li	1051	Seakeeping of two ships in close proximity

Technical Note

D.V. Bambill, S.J. Escanes and C.A. Rossit 1065 Forced vibrations of a clamped-free beam with a mass at the free end with an external periodic disturbance acting on the mass with applications in ships' structures

D. Myrhaug and O. H. Slaattelid 1079 Addendum to "Effects of sea roughness and atmospheric stability on wind wave growth"

Number 9

V. I. Beena and V. A. Subramanian 1077 Parametric studies on seaworthiness of SWATH ships

N. K. Liang 1107 The typhoon swell Doppler effect

W. W. Pandoe and B. L. Edge 1117 Three-dimensional hydrodynamic model, study cases for quarter annular and idealized ship channel problems

C.-C. Liang, C.-Y. Jen, M.-F. Yang and P.-W. Wu 1137 Resistant performance of perforation in protective structures using a semi-empirical method with marine applications

M. C. Deo and S. S. Jagdale 1163 Prediction of breaking waves with neural networks

Technical Notes

K. I. Matveev 1179 On the limiting parameters of artificial cavitation

P. Boccotti 1191 On a new wave energy absorber

P. A. A. Laura, C. A. Rossit and D. V. Bambill 1201 Letter to the Editor

Number 10

H. A. Schäffer and C. M. Steenberg 1203 Second-order wavemaker theory for multi-directional waves

C. Nielsen and C. Apelt 1233 The application of wave induced forces to a two-dimensional finite element long wave hydrodynamic model

X. Yu and B. Zhang	1253	An extended analytic solution for combined refraction and diffraction of long waves over circular shoals
M. Söylemez and O. Yılmaz	1269	Hydrodynamic design of a TLP type offloading platform
F. P. Gao, X. Y. Gu and D. S. Jeng	1283	Physical modeling of untrenched submarine pipeline instability
		Technical Note
S. Surendran and J. Venkata Ramana Reddy	1305	Numerical simulation of ship stability for dynamic environment
	1319	Book received
	1321	Corrigendum

Number 11

P. M. Ciancio and J. A. Reyes	1323	Buckling of circular, annular plates of continuously variable thickness used as internal bulkheads in submersibles
M. Lin and D. S. Jeng	1335	Comparison of existing poroelastic models for wave damping in a porous seabed
K. F. Cheung, A. C. Phadke, Y. Wei, R. Rojas, Y. J.-M. Douyere, C. D. Martino, S. H. Houston, P. L.-F. Liu, P. J. Lynett, N. Dodd, S. Liao and E. Nakazaki	1353	Modeling of storm-induced coastal flooding for emergency management
J. M. Niedzwecki and P.-Y. F. Liagre	1387	System identification of distributed-parameter marine riser models
D. R. DelBalzo, J. R. Schultz and M. D. Earle	1417	Stochastic time-series simulation of wave parameters using ship observations
		Technical Note
O. Yagci and S. Kapdasli	1433	Alternative placement technique for antifer blocks used on breakwaters

Number 12

S. Cokgor and I. Avci	1453	Forces on partly buried, tandem twin cylinders in waves at low Keulegan-Carpenter numbers
C. D. Chadwell	1467	Shipboard towers for Global Positioning System antennas
Q. Y. Zhang and E. S. Chan	1489	Sensitivity studies with the three-dimensional multi-level model for tidal motion
S. Neelamani and N. Sandhya	1507	Wave reflection characteristics of plane, dentated and serrated seawalls
K. Sariöz and E. Narli	1535	Assessment of manoeuvring performance of large tankers in restricted waterways: a real-time simulation approach
G. K. Furnes and J. Berntsen	1553	On the response of a free span pipeline subjected to ocean currents

Number 13

K. Günaydın and M. S. Kabdaşlı	1579	Characteristics of coastal erosion geometry under regular and irregular waves
L. Cheng and L. W. Chew	1595	Modelling of flow around a near-bed pipeline with a spoiler
H. S. Choi and J. G. Bomba	1613	Acceptance criteria of defects in undersea pipeline using internal inspection
A. Umar and T. K. Datta	1625	Nonlinear response of a moored buoy
S. I. Voropayev, F. Y. Testik, H. J. S. Fernando and D. L. Boyer	1647	Burial and scour around short cylinder under progressive shoaling waves
L. Moreira and C. Guedes Soares	1669	Dynamic model of manoeuvrability using recursive neural networks

C.-Y. Lin and J.-C. Huang 1699 An oxygenating additive for improving the performance and emission characteristics of marine diesel engines

1717 Books received

Number 14

R. Silva, G. Govaere and P. Salles 1719 Wave interaction with cylindrical porous piles

S. I. Voropayev, F. Y. Testik, H. J. S. Fernando and D. L. Boyer 1741 Morphodynamics and cobbles behavior in and near the surf zone

G. G. Moses, S. N. Rao and P. N. Rao 1765 Undrained strength behaviour of a cemented marine clay under monotonic and cyclic loading

J. S. Wu and K.-W. Chen 1791 An alternative approach to the structural motion analysis of wedge-beam offshore structures supporting a load

S. Sankaranarayanan and D. French McCay 1807 Application of a two-dimensional depth-averaged hydrodynamic tidal model

H.-K. Chang and T.-W. Hsu 1833 A two-point method for estimating wave reflection over a sloping beach

Technical Note

C. Lee, Y.-S. Cho and S. B. Yoon 1849 A note on linear dispersion and shoaling properties in extended Boussinesq equations

Number 15

E. Amromin and S. Kovinskaya 1869 Numerical simulation of sediment transport in harbors

T.-W. Hsu, C.-D. Jan and C.-C. Wen 1887 Modified McCormicks model for equilibrium shorelines behind a detached breakwater

J. Wu and B. Chen 1899 Unsteady ship waves in shallow water of varying depth based on Green–Naghdi equation

Y.-S. Cho	1915	A note on estimation of the Jacobian elliptic parameter in cnoidal wave theory
D.-S. Hur, N. Kawashima and K. Iwata	1923	Experimental study of the breaking limit of multi-directional random waves passing over an impermeable submerged breakwater
C.-C. Liang, H.-W. Chen and C.-Y. Jen	1941	Optimum design of filament-wound multilayer-sandwich submersible pressure hulls
J.-C. Park, M.-H. Kim, H. Miyata and H.-H. Chun	1969	Fully nonlinear numerical wave tank (NWT) simulations and wave run-up prediction around 3-D structures
X. J. Chen, J. Juncher Jensen, W. C. Cui and S. X. Fu	1997	Hydroelasticity of a floating plate in multidirectional waves
	2019	Corrigendum

Number 16

N. Mori and D. T. Cox	2021	Dynamic properties of green water event in the overtopping of extreme waves on a fixed dock
F. G. O'Neill	2053	A theoretical study of the factors which influence the measurement of fishing netting mesh size
D.-S. Jeng and D. H. Cha	2065	Effects of dynamic soil behavior and wave nonlinearity on the wave-induced pore pressure and effective stresses in porous seabed
M. R. Davis and D. S. Holloway	2091	The influence of hull form on the motions of high speed vessels in head seas
S. H. Rhee, S.-E. Kim, H. Ahn, J. Oh and H. Kim	2117	Analysis of a jet-controlled high-lift hydrofoil with a flap
J. Guo, F.-C. Chiu and C.-C. Huang	2137	Design of a sliding mode fuzzy controller for the guidance and control of an autonomous under-water vehicle

		Technical Note
H. T. Teo	2157	Wave pressures on a vertical wall due to short-crested waves: fifth-order approximation
	I	Calender

Number 17

S. H. Kwon, D. W. Kim and H. S. Lee	2167	Application of wavelet transforms to the decoupling of free-roll decay data
K. E. Steele	2179	Pitch-roll buoy mean wave directions from heave acceleration, bow magnetism, and starboard magnetism
K. D. Do, J. Pan and Z. P. Jiang	2201	Robust adaptive control of underactuated ships on a linear course with comfort
D. Myrhaug, H. T. Wist and L. E. Holmedal	2227	Drag force on a circular cylinder in unseparated laminar high Reynolds number nonlinear random oscillatory flow
V. S. Kumar, S. Mandal and K. A. Kumar	2239	Estimation of wind speed and wave height during cyclones
G. Rodríguez	2255	Analysis and simulation of wave records through fast Hartley transform
		Extended Technical Note
W. Huang, C. Murray, N. Kraus and J. Rosati	2275	Development of a regional neural network for coastal water level predictions
		Technical Note
R. Latorre, A. Miller and R. Philips	2297	Micro-bubble resistance reduction on a model SES catamaran
		Letter to the Editor
P. A. A. Laura, C. A. Rossit and D. V. Bambill	2311	Comments on: Dynamics and control of a towed underwater vehicle system, part 1: model development
	I	Calendar

Number 18

H. S. Lee and S. H. Kwon	2313	Wave profile measurement by wavelet transform
A. Hayir	2329	The effects of variable speeds of a submarine block slide on near-field tsunami amplitudes
S. Sankaranarayanan and M. L. Spaulding	2343	Dispersion and stability analyses of the linearized two-dimensional shallow water equations in Cartesian coordinates
B. Ren and Y. Wang	2363	Experimental study of irregular wave impact on structures in the splash zone
H. K. Yoon and K. P. Rhee	2379	Identification of hydrodynamic coefficients in ship maneuvering equations of motion by Estimation-Before-Modeling technique
C.-Y. Lin and W.-C. Chen	2405	Emission characteristics of marine furnaces burned at varying inlet air temperatures and humidity
		Technical Note
C. Lee and D. S. Lee	2423	Water surface resonance in the L-shaped channel of seawater exchange breakwater
	I	Contents and Author Index, Volume 30
	XIX	Calendar